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SEQREQ
Sequence Problem Att. From Exr.

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INTERNAL SEQUENCE DOCUMENT INDEX SHEET

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: _____ *10/552,324*
Source: _____ *IFWO*
Date Processed by STIC: _____ *12/20/2006*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER
VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
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1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission
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Revised 01/10/06

IFWO

RAW SEQUENCE LISTING   DATE: 12/20/2006
PATENT APPLICATION: US/10/552,324   TIME: 13:57:06

Input Set : N:\efs\12_20_06\10552324_efs\10552324.txt
Output Set: N:\CRF4\12202006\J552324.raw

```
      3 <110> APPLICANT: Igeneon Krebs-Immuntherapie Forschungs- & Entwickl
      5 <120> TITLE OF INVENTION: Immunogenic Recombinant Antibody
      7 <130> FILE REFERENCE: Immunogenic Recombinant AB
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/552,324
C--> 10 <141> CURRENT FILING DATE: 2005-10-07
     12 <160> NUMBER OF SEQ ID NOS: 5
     14 <170> SOFTWARE: PatentIn Ver. 2.1
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 3973
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Artificial Sequence
     21 <220> FEATURE:
     22 <223> OTHER INFORMATION: Description of Artificial Sequence mAB 17-1A
     24 <400> SEQUENCE: 1
     25 ataggctagc ctcgagccac caccatgcat cagaccagca tgggcatcaa gatggaatca 60
     26 cagactctgg tcttcatatc catactgctc tggttatatg gagctgatgg gaacattgta 120
     27 atgacccaat ctcccaaatc catgtccatg tcagtaggag agagggtcac cttgacctgc 180
W--> 28 aaggccagtg agaatgtggt tacttatgtt tcatggtatc aacagaaacc agagcagtct 240
     29 cctaaactgc tgatatatgg ggcatccaac cggtacactg gggtcccnga tcgcttcaca 300
     30 ggcagtggat ctgcaacaga tttcactctg accatcagca gtgtgcaggc tgaagacctt 360
     31 gcagattatc actgtggaca gggttacagc tatccgtaca cgttcggagg ggggaccaag 420
     32 ctggaaataa aacgggctga tgctgcacca actgtatcca tcttcccacc atccagtgag 480
     33 cagttaacat ctggaggtgc ctcagtcgtg tgcttcttga caacttcta ccccaaagac 540
     34 atcaatgtca agtggaagat tgatggcagt gaacgacaaa atggcgtcct gaacagttgg 600
     35 actgatcagg acagcaaaga cagcacctac agcatgagca gcaccctcac gttgaccaag 660
     36 gacgagtatg aacgacataa cagctatacc tgtgaggcca ctcacaagac atcaacttca 720
     37 cccattgtca agagcttcaa caggaatgag tgttagacgc gtggatccgc ccctctccct 780
     38 cccccccccc taacgttact ggccgaagcc gcttggaata aggccggtgt gcgtttgtct 840
     39 atatgtgatt ttccaccata ttgccgtctt ttggcaatgt gagggcccgg aaacctggcc 900
     40 ctgtcttctt gacgagcatt cctaggggtc tttcccctct cgccaaagga atgcaaggtc 960
     41 tgttgaatgt cgtgaaggaa gcagttcctc tggaagcttc ttgaagacaa acaacgtctg 1020
     42 tagcgaccct ttgcaggcag cggaaccccc cacctggcga caggtgcctc tgcggccaaa 1080
     43 agccacgtgt ataagataca cctgcaaagg cggcacaacc ccagtgccac gttgtgagtt 1140
     44 ggatagttgt ggaaagagtc aaatggctct cctcaagcgt attcaacaag gggctgaagg 1200
     45 atgcccagaa ggtaccccat gtatgggat ctgatctggg gcctcggtgc acatgcttta 1260
     46 catgtgttta gtcgaggtta aaaaaacgtc taggcccccc gaaccacggg gacgtggttt 1320
     47 tcctttgaaa aacacgatga taatatggcc accaccatgg aatggagcag agtctttatc 1380
     48 tttctcctat cagtaactgc aggtgttcac tcccaggtcc agttgcagca gtctggagct 1440
     49 gagctggtaa ggcctgggac ttcagtgaag gtgtcctgca aggcttctgg atacgccttc 1500
     50 actaattact tgatagagtg ggtaaagcag aggcctggac agggccttga gtggattggg 1560
     51 gtgattaatc ctggaagtgg tggtactaac tacaatgaga gttcaaggg caaggcaaca 1620
     52 ctgactgcag acaaatcctc cagcactgcc tacatgcagc tcagcagcct gacatctgat 1680
     53 gactctgcgg tctatttctg tgcaagagat ggtccctggt ttgcttactg gggccaaggg 1740
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RAW SEQUENCE LISTING   DATE: 12/20/2006
PATENT APPLICATION: US/10/552,324 TIME: 13:57:06

Input Set : N:\efs\12_20_06\10552324_efs\10552324.txt
Output Set: N:\CRF4\12202006\J552324.raw

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54 actctggtca ctgtctctgc agccaaaaca acagccccat cggtctatcc actggcccct 1800
55 gtgtgtggag atacaactgg ctcctcggtg actctaggat gcctggtcaa gggttatttc 1860
56 cctgagccag tgaccttgac ctggaactct ggatccctgt ccagtggtgt gcacaccttc 1920
57 ccagctgtcc tgcagtctga cctctacacc ctcagcagct cagtgactgt aacctcgagc 1980
58 acctggccca gccagtccat cacctgcaat gtggcccacc cggcaagcag caccaaggtg 2040
59 gacaagaaaa ttgagcccag agggcccaca atcaagccct gtcctccatg caaatgccca 2100
60 gcacctaacc tcttgggtgg accatccgtc ttcatcttcc ctccaaagat caaggatgta 2160
61 ctcatgatct ccctgagccc catagtcaca tgtgtggtgg tggatgtgag cgaggatgac 2220
62 ccagatgtcc agatcagctg gtttgtgaac aacgtggaag tacacacagc tcagacacaa 2280
63 acccatagag aggattacaa cagtactctc cgggtggtca gtgccctccc catccagcac 2340
64 caggactgga tgagtggcaa ggagttcaaa tgcaaggtca acaacaaaga cctcccagcg 2400
65 cccatcgaga gaaccatctc aaaacccaaa gggtcagtaa gagctccaca ggtatatgtc 2460
66 ttgcctccac cagaagaaga gatgactaag aaacaggtca ctctgacctg catggtcaca 2520
67 gacttcatgc ctgaagacat ttacgtggag tggaccaaca cgggaaaac agagctaaac 2580
68 tacaagaaca ctgaaccagt cctggactct gatggttctt acttcatgta cagcaagctg 2640
69 agagtggaaa agaagaactg ggtggaaaga aatagctact cctgttcagt ggtccacgag 2700
70 ggtctgcaca atcaccacac gactaagagc ttctcccgga ctccgggtaa atgagtcgac 2760
71 acgcgtcgag catgcatcta gggcggccaa ttccgcccct ctccctcccc cccccctaac 2820
72 gttactggcc gaagccgctt ggaataaggc cggtgtgcgt ttgtctatat gtgattttcc 2880
73 accatattgc cgtcttttgg caatgtgagg gcccggaaac ctggccctgt cttcttgacg 2940
74 agcattccta ggggtctttc ccctctcgcc aaaggaatgc aaggtctgtt gaatgtcgtg 3000
75 aaggaagcag ttcctctgga agcttcttga agacaaacaa cgtctgtagc gacccttttgc 3060
76 aggcagcgga acccccccacc tggcgacagg tgcctctgcg gccaaaagcc acgtgtataa 3120
77 gatacacctg caaaggcggc acaaccccag tgccacgttg tgagttggat agttgtggaa 3180
78 agagtcaaat ggctctcctc aagcgtattc aacaaggggc tgaaggatgc ccagaaggta 3240
79 ccccattgta tgggatctga tctggggcct cggtgcacat gctttacatg tgtttagtcg 3300
80 aggttaaaaa aacgtctagg cccccccgaac cacggggacg tggttttcct ttgaaaaaca 3360
81 cgatgataag cttgccacaa cccgggatcc tctagaccac catggttcga ccattgaact 3420
82 gcatcgtcgc cgtgtcccaa gatatgggga ttggcaagaa cggagaccta ccctggcctc 3480
83 cgctcaggaa cgagttcaag tacttccaaa gaatgaccac aacctcttca gtggaaggta 3540
84 aacagaatct ggtgattatg ggtaggaaaa cctggttctc cattcctgag aagaatcgac 3600
85 ctttaaagga cagaattaat atagttctca gtagagaact caaagaacca ccacgaggag 3660
86 ctcattttct tgccaaaagt ttggatgatg ccttaagact tattgaacaa ccggaattgg 3720
87 caagtaaagt agacatggtt tggatagtcg gaggcagttc tgtttaccag gaagccatga 3780
88 atcaaccagg ccacctcaga ctctttgtga caaggatcat gcaggaattt gaaagtgaca 3840
89 cgtttttccc agaaattgat ttggggaaat ataaacttct cccagaatac ccaggcgtcc 3900
90 tctctgaggt ccaggaggaa aaaggcatca gtataagtt tgaagtctac gagaagaaag 3960
91 actaagcggc cgc                                                  3973
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93 <210> SEQ ID NO: 2
94 <211> LENGTH: 465
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence mAB 17-1A
101 <400> SEQUENCE: 2
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105 Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg
106              20                  25                  30
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108 Pro Gly Thr Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe
109         35                  40                  45
111 Thr Asn Tyr Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
112         50                  55                  60
114 Glu Trp Ile Gly Val Ile Asn Pro Gly Ser Gly Gly Thr Asn Tyr Asn
115  65                  70                  75                  80
117 Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
118                 85                  90                  95
120 Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val
121                 100                 105                 110
123 Tyr Phe Cys Ala Arg Asp Gly Pro Trp Phe Ala Tyr Trp Gly Gln Gly
124             115                 120                 125
126 Thr Leu Val Thr Val Ser Ala Ala Lys Thr Thr Ala Pro Ser Val Tyr
127         130                 135                 140
129 Pro Leu Ala Pro Val Cys Gly Asp Thr Thr Gly Ser Ser Val Thr Leu
130 145                 150                 155                 160
132 Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Leu Thr Trp
133             165                 170                 175
135 Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu
136             180                 185                 190
138 Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Thr Ser Ser
139         195                 200                 205
141 Thr Trp Pro Ser Gln Ser Ile Thr Cys Asn Val Ala His Pro Ala Ser
142     210                 215                 220
144 Ser Thr Lys Val Asp Lys Lys Ile Glu Pro Arg Gly Pro Thr Ile Lys
145 225                 230                 235                 240
147 Pro Cys Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro
148             245                 250                 255
150 Ser Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser
151         260                 265                 270
153 Leu Ser Pro Ile Val Thr Cys Val Val Val Asp Val Ser Glu Asp Asp
154         275                 280                 285
156 Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val His Thr
157     290                 295                 300
159 Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val
160 305                 310                 315                 320
162 Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu
163             325                 330                 335
165 Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg
166             340                 345                 350
168 Thr Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro Gln Val Tyr Val
169         355                 360                 365
171 Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val Thr Leu Thr
172     370                 375                 380
174 Cys Met Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val Glu Trp Thr
175 385                 390                 395                 400
177 Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu
178             405                 410                 415
180 Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu Lys
```

```
181           420                425                430
183 Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu
184           435                440                445
186 Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly
187     450                455                460
189 Lys
190 465
193 <210> SEQ ID NO: 3
194 <211> LENGTH: 243
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence mAB 17-1A
201 <400> SEQUENCE: 3
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203   1               5                  10                 15
205 Phe Ile Ser Ile Leu Leu Trp Leu Tyr Gly Ala Asp Gly Asn Ile Val
206           20                 25                 30
208 Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly Glu Arg Val
209           35                 40                 45
211 Thr Leu Thr Cys Lys Ala Ser Glu Asn Val Val Thr Tyr Val Ser Trp
212     50                 55                 60
214 Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile Tyr Gly Ala
215   65                 70                 75                 80
217 Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser
218           85                 90                 95
220 Ala Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu
221           100                105                110
223 Ala Asp Tyr His Cys Gly Gln Gly Tyr Ser Tyr Pro Tyr Thr Phe Gly
224           115                120                125
226 Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val
227     130                135                140
229 Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser
230 145                150                155                160
232 Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys
233           165                170                175
235 Trp Lys Ile Asp Gly Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp
236           180                185                190
238 Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu
239           195                200                205
241 Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu
242     210                215                220
244 Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg
245 225                230                235                240
247 Asn Glu Cys
251 <210> SEQ ID NO: 4
252 <211> LENGTH: 243
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 12/20/2006
PATENT APPLICATION: US/10/552,324   TIME: 13:57:06

Input Set : N:\efs\12_20_06\10552324_efs\10552324.txt
Output Set: N:\CRF4\12202006\J552324.raw

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256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence:mAB 17-1A
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264             20                  25                  30
266 Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly Glu Arg Val
267         35                  40                  45
269 Thr Leu Thr Cys Lys Ala Ser Glu Asn Val Val Thr Tyr Val Ser Trp
270      50                  55                  60
272 Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile Tyr Gly Ala
273  65                  70                  75                  80
275 Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser
276             85                  90                  95
278 Ala Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu
279             100                 105                 110
281 Ala Asp Tyr His Cys Gly Gln Gly Tyr Ser Tyr Pro Tyr Thr Phe Gly
282         115                 120                 125
284 Gly Gly Thr Lys Leu Glu Ile Arg Arg Ala Asp Ala Ala Pro Thr Val
285      130                 135                 140
287 Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser
288 145                 150                 155                 160
290 Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys
291             165                 170                 175
293 Trp Lys Ile Asp Gly Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp
294             180                 185                 190
296 Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu
297         195                 200                 205
299 Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu
300      210                 215                 220
302 Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg
303 225                 230                 235                 240
305 Asn Glu Cys
309 <210> SEQ ID NO: 5
310 <211> LENGTH: 243
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence:mAB 17-1A
317 <400> SEQUENCE: 5
318 Met His Gln Thr Ser Met Gly Ile Arg Met Glu Ser Gln Thr Leu Val
319  1               5                   10                  15
321 Phe Ile Ser Ile Leu Leu Trp Leu Tyr Gly Ala Asp Gly Asn Ile Val
322             20                  25                  30
324 Met Thr Gln Ser Pro Arg Ser Met Ser Met Ser Val Gly Glu Arg Val
325         35                  40                  45
327 Thr Leu Thr Cys Arg Ala Ser Glu Asn Val Val Thr Tyr Val Ser Trp
328      50                  55                  60
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/20/2006
PATENT APPLICATION: **US/10/552,324**   TIME: 13:57:07

Input Set : **N:\efs\12_20_06\10552324_efs\10552324.txt**
Output Set: **N:\CRF4\12202006\J552324 raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 213,288

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:5; Line(s) 368,369,370,371,372,373,374,375,376,377,378,379,380,381,382

VARIABLE LOCATION SUMMARY   DATE: 12/20/2006
PATENT APPLICATION: **US/10/552,324**   TIME: 13:57:07

Input Set : **N:\efs\12_20_06\10552324_efs\10552324.txt**
Output Set: **N:\CRF4\12202006\J552324.raw**

Error Explanation

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:1; N Pos. 213,288

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/552,324**

DATE: 12/20/2006
TIME: 13:57:07

Input Set : **N:\efs\12_20_06\10552324_efs\10552324.txt**
Output Set: **N:\CRF4\12202006\J552324.raw**

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:1
L:28 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:1
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:180
M:341 Repeated in SeqNo=1